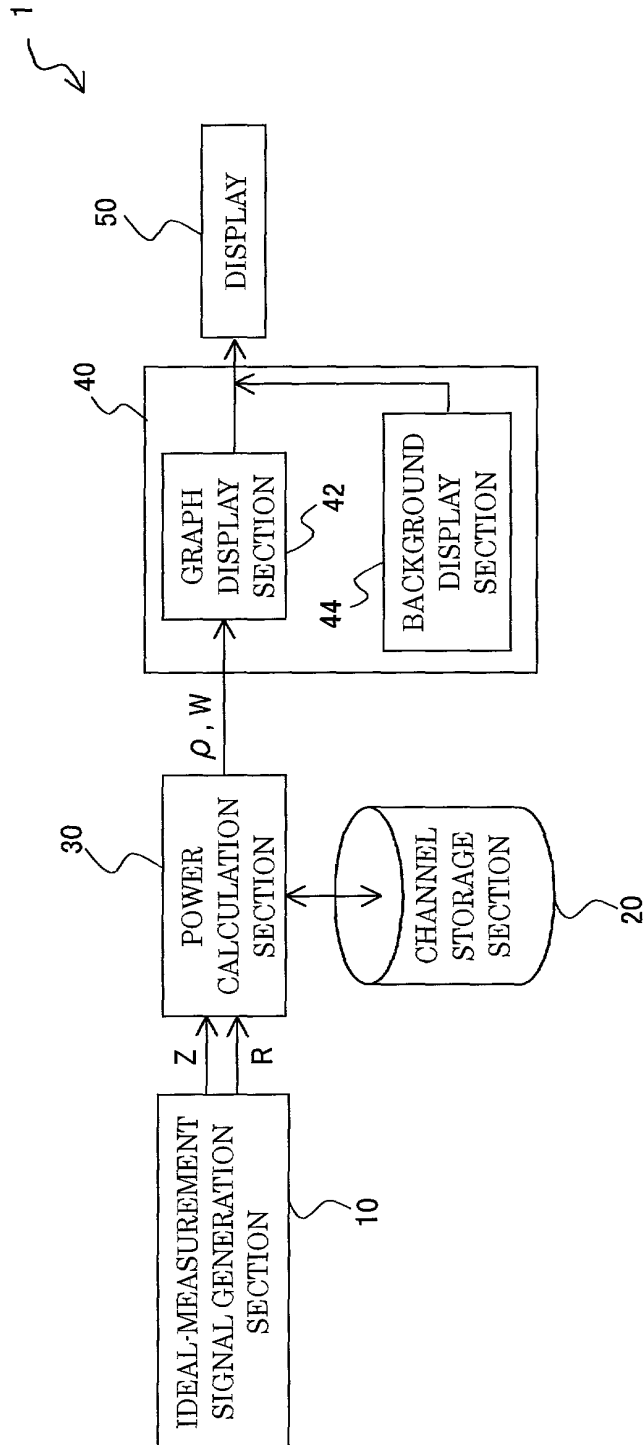


TITLE: PHYSICAL QUANTITY DISPLAY DEVICE FOR DISPLAYING PHYSICAL QUANTITY OF
MULTIPLE SIGNALS, METHOD AND RECORDING MEDIUM

Inventor: Toshiaki KURIHARA et al.

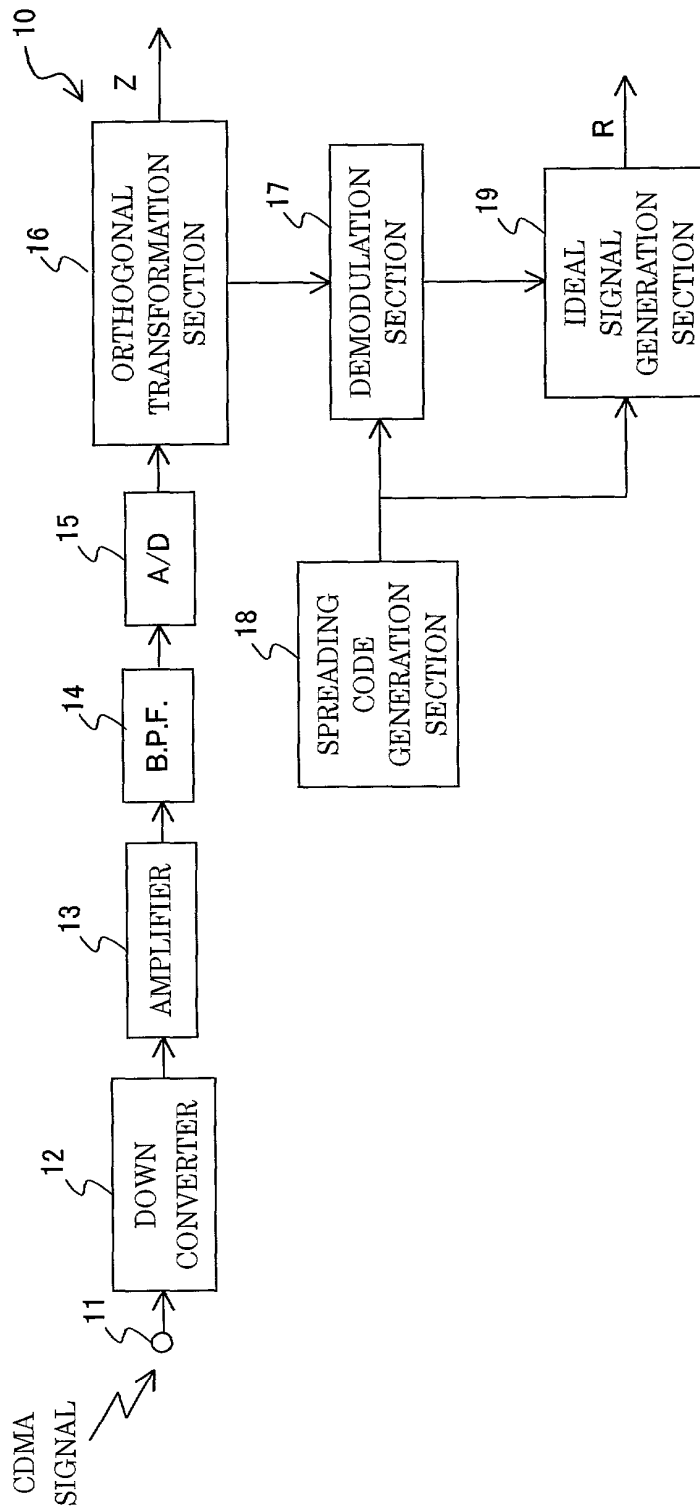
Docket No. 4468-021



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Docket No. 4468-021



DISPLAY OBJECT

20

CHANNEL TYPE	SPREADING CODE LENGTH	SPREADING CODE NUMBER
PICH	32	0
DCCH	16	8
SCH2	4 (8)	2 (6)
FCH	16	4
SCH1	2 (4)	1 (2)

T 08080" E 08E31650

$$(a) \quad \rho_i = \frac{\sum_{j=1}^N \left| \sum_{k=1}^L Z_{j,k} R_{i,j,k}^* \right|^2}{\left\{ \sum_{k=1}^L |R_{i,j,k}|^2 \right\} \left\{ \sum_{j=1}^N \sum_{k=1}^L |Z_{j,k}|^2 \right\}}$$

$$(b) \quad W_i = 10.0 \times \log_{10} \rho_i \quad [\text{dB}]$$

$$(c) \quad X_i[\text{dBm}] = \text{POWER VALUE OF INPUT SIGNAL} [\text{dBm}] + W_i \quad [\text{dB}]$$

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CHANNEL TYPE	POWER [dB]
PICH	-3
DCCH	-6
SCH2	-40
FCH	-6.5
SCH1	-30

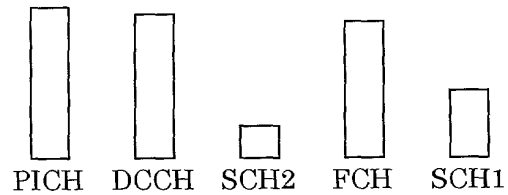
T05080" C08E2650

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MULTIPLE SIGNALS, METHOD AND RECORDING MEDIUM

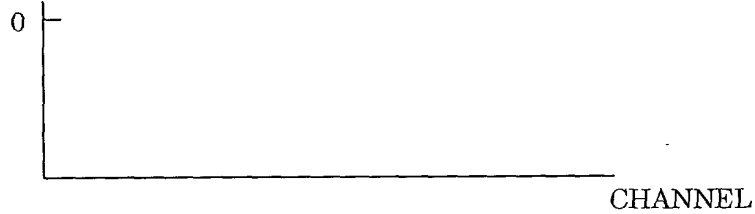
Inventor: Toshiaki KURIHARA et al.

Docket No. 4468-021

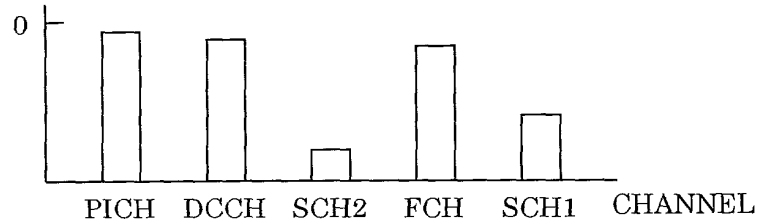
(a)

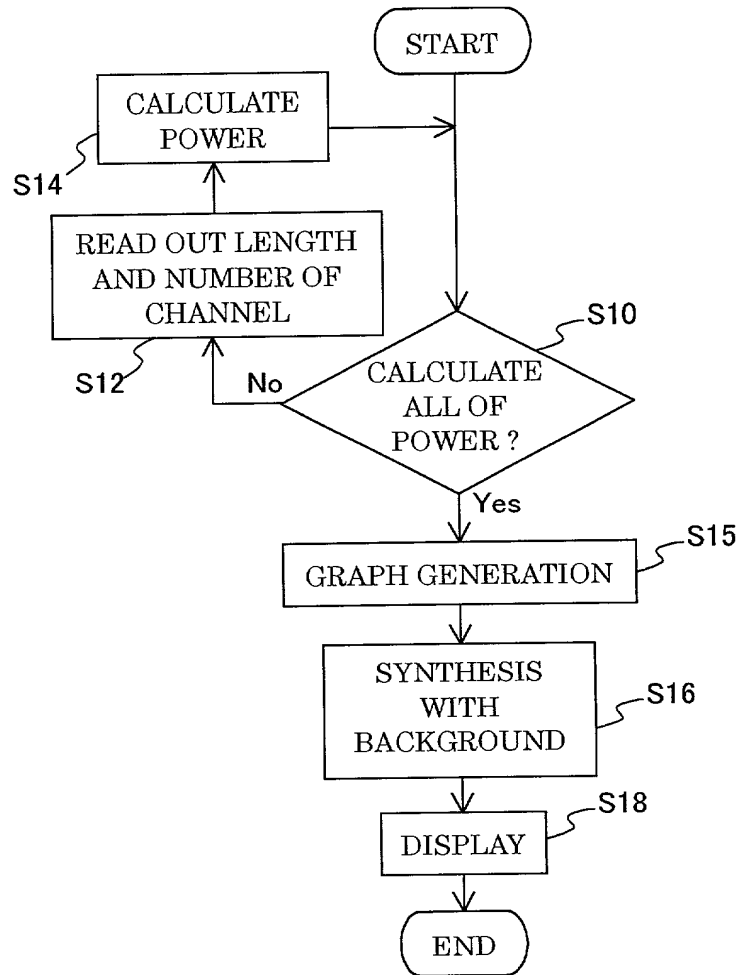


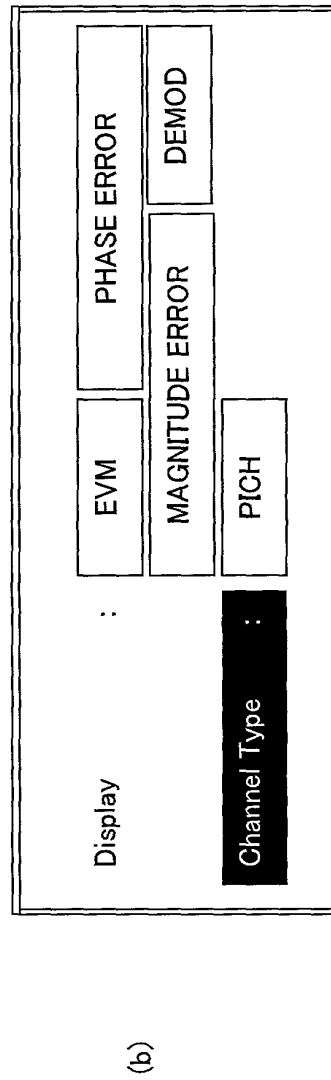
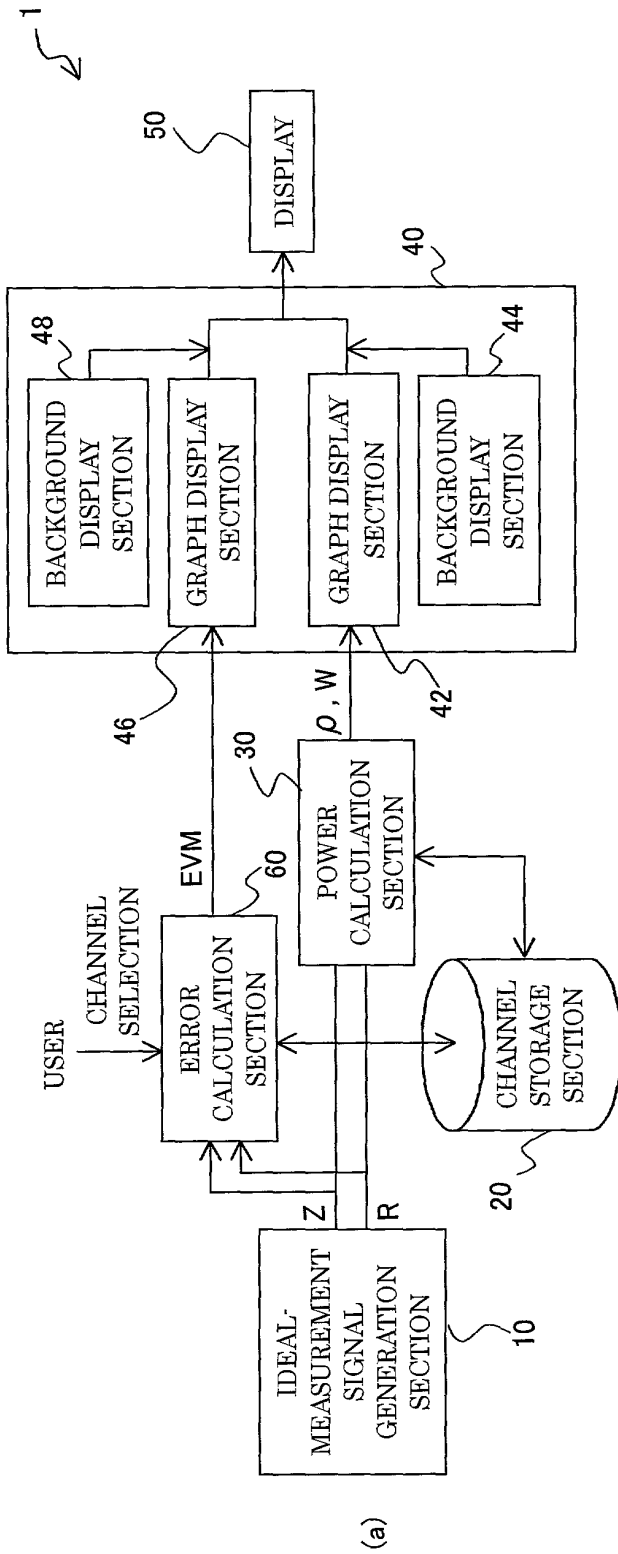
(b) POWER [dB]



(c) POWER [dB]







$$(a) \text{EVM}_{ij} = 100 \times \sqrt{\frac{\left| \left(\sum_{k=1}^L Z_{j,k} \cdot R_{i,j,k}^* \right) - \left(\sum_{k=1}^L R_{i,j,k} \cdot R_{i,j,k}^* \right) \right|^2}{\left| \left(\sum_{k=1}^L R_{i,j,k} \cdot R_{i,j,k}^* \right) \right|^2}} [\%]$$

(b) Phase Error ij

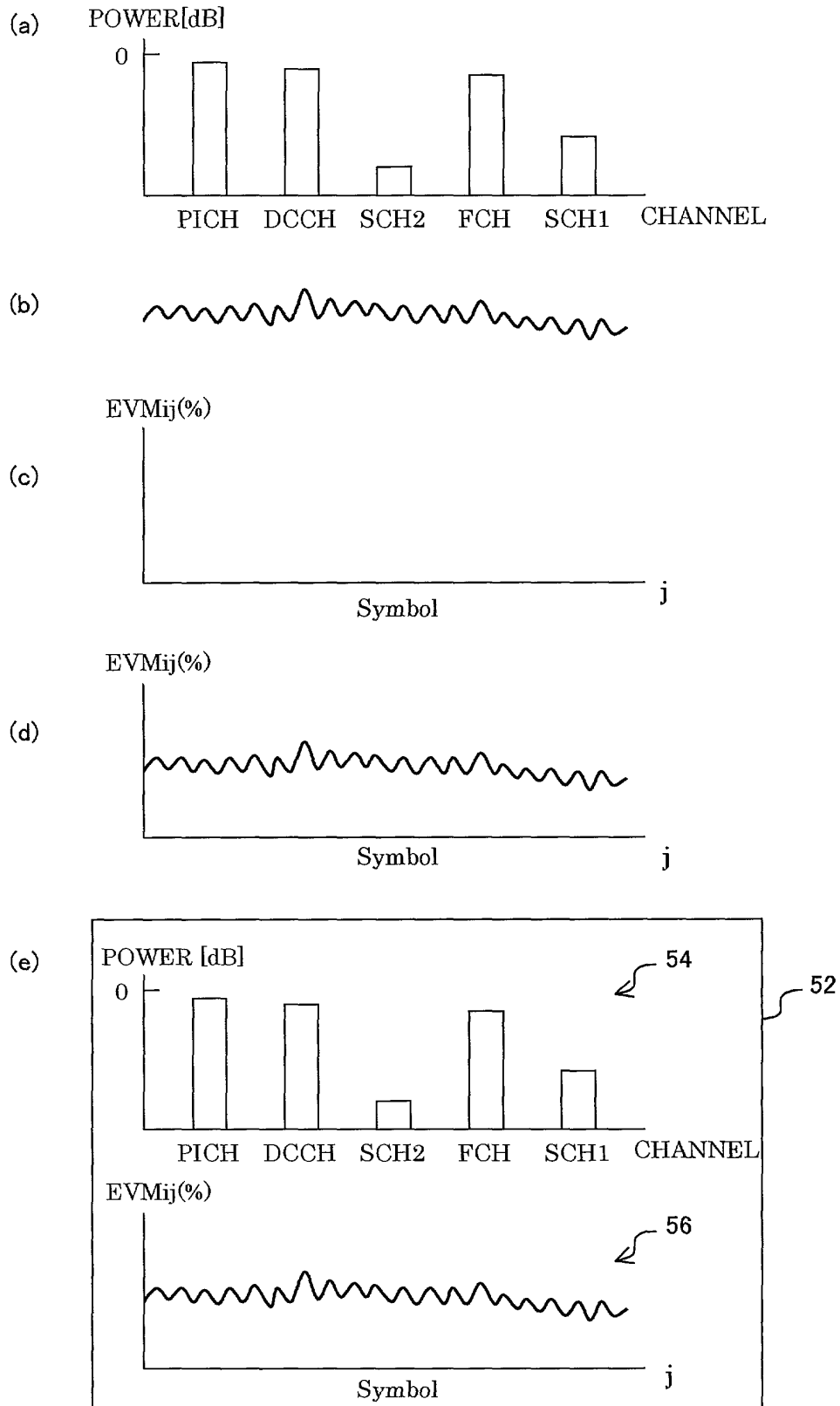
$$= \text{Arg} \left(\sum_{k=1}^L Z_{j,k} \cdot R_{i,j,k}^* \right) - \text{Arg} \left(\sum_{k=1}^L R_{i,j,k} \cdot R_{i,j,k}^* \right) [\text{degree}]$$

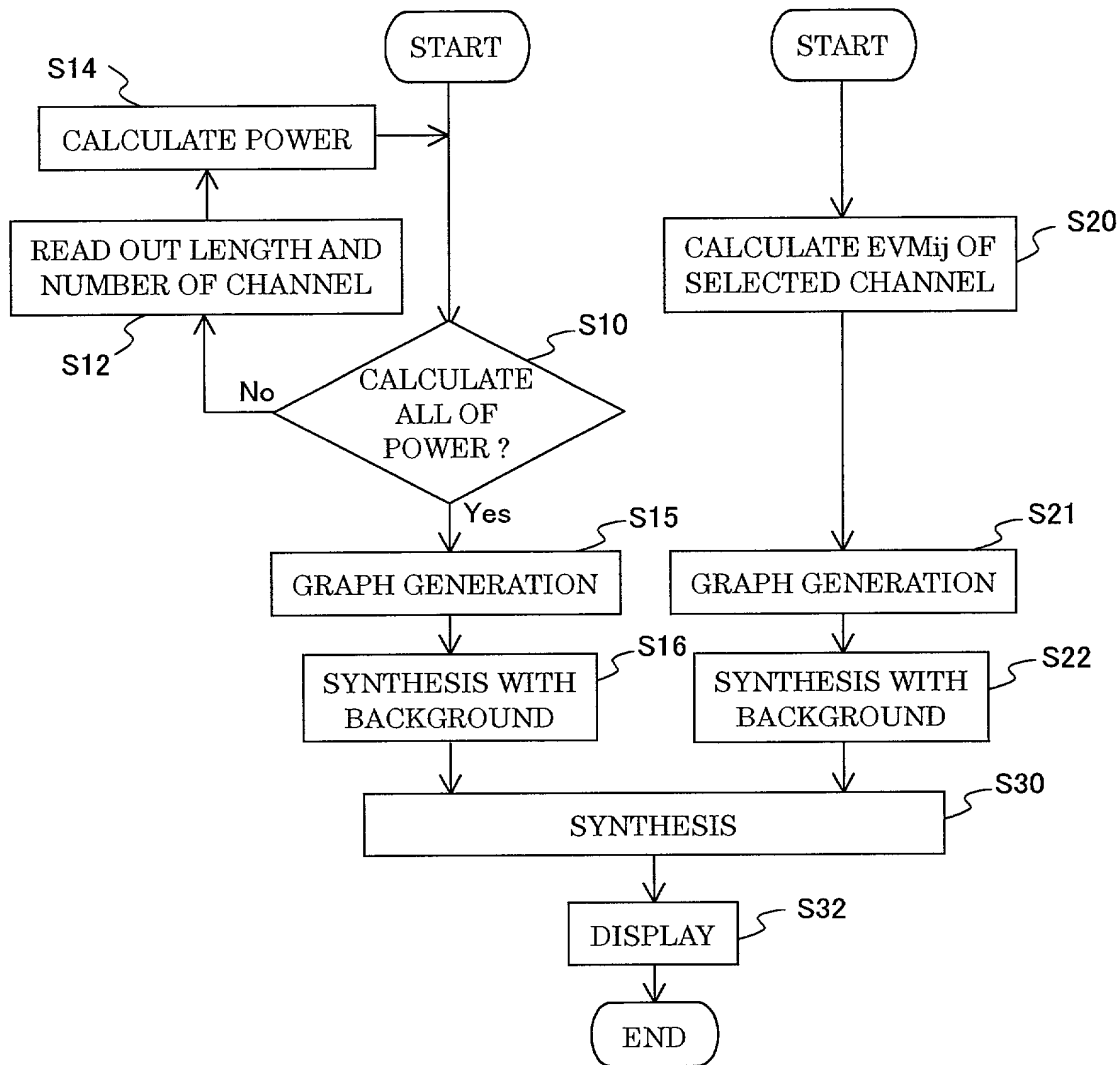
OR
[radian]

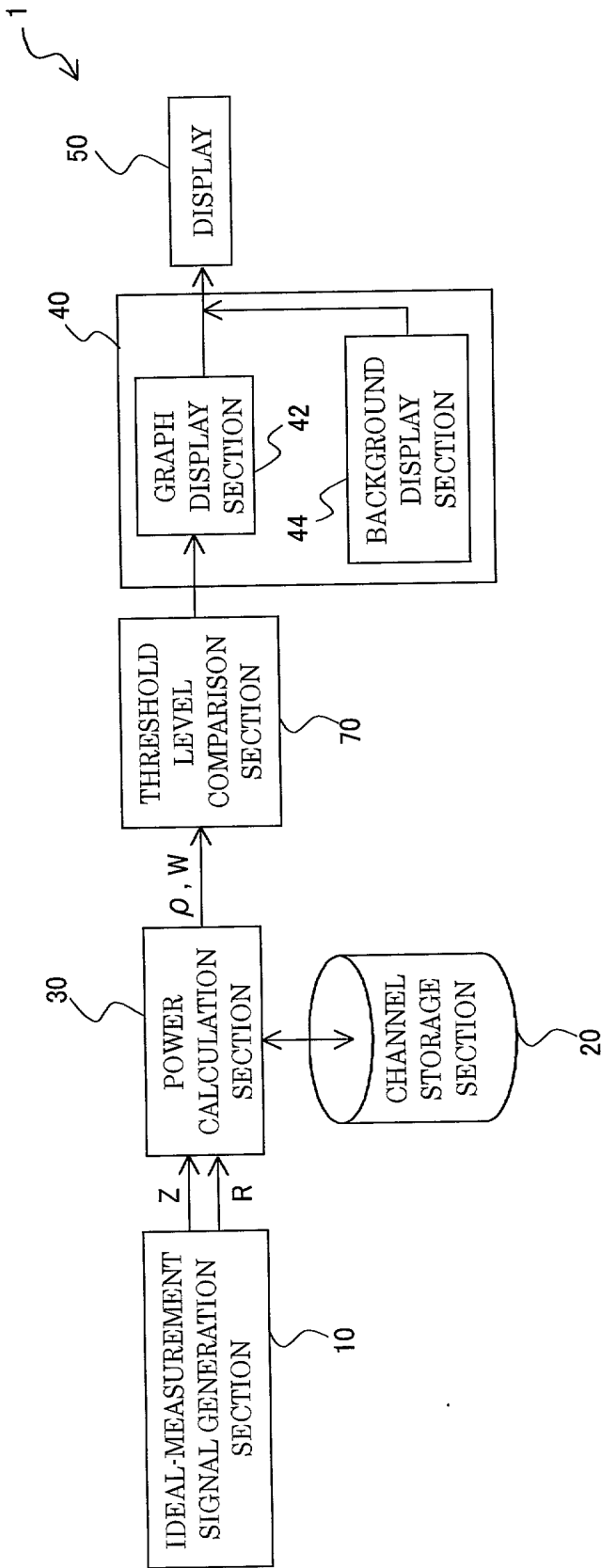
PROVIDED THAT Arg IS $\tan^{-1} \frac{\beta}{\alpha}$ WHEN WITHIN () IS TAKEN TO BE $\alpha + j\beta$.

(c) Magnitude Error ij

$$= 100 \times \frac{\left| \sum_{k=1}^L Z_{j,k} \cdot R_{i,j,k}^* \right| - \left| \sum_{k=1}^L R_{i,j,k} \cdot R_{i,j,k}^* \right|}{\left| \sum_{k=1}^L R_{i,j,k} \cdot R_{i,j,k}^* \right|} [\%]$$







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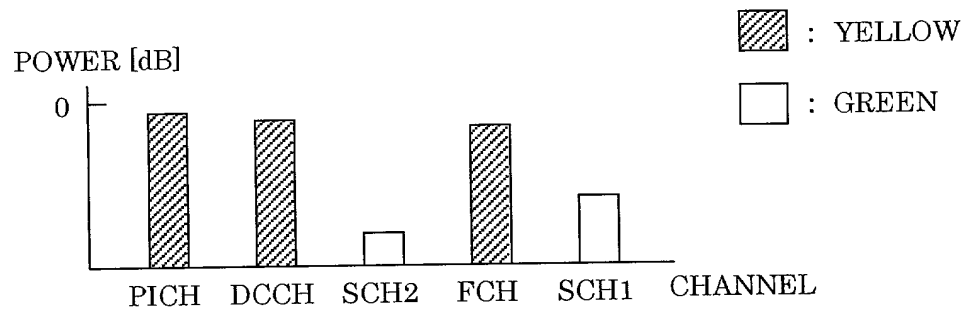
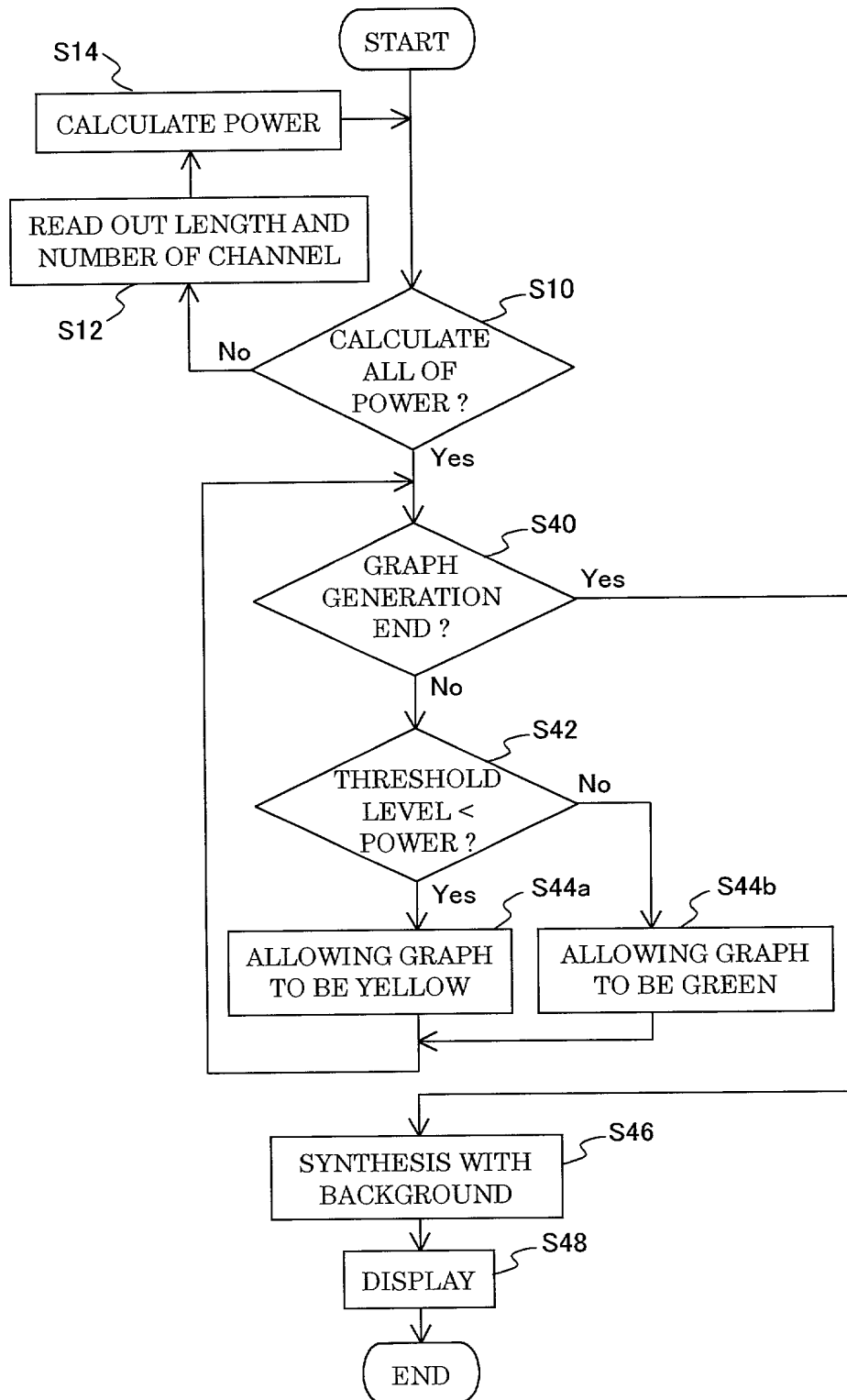


FIG. 13



LENGTH OF WALSH FUNCTION L=4

CHANNEL(i)	WALSH CODE			
0	0	0	0	0
1	0	1	0	1
2	0	0	1	1
3	0	1	1	0

T00000"00000000

